

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A weight member for a golf club head, the weight member being made by a WFeNi alloy manufactured by means of a precision casting process, the WFeNi alloy comprising wt 15%-40% of iron, wt 30%-60% of nickel, wt 15%-30% of tungsten, wt 1.5%-10.0% of chromium, and wt 0.5%-5.0% of molybdenum; wherein the tungsten is used to adjust a desired weight of various golf club heads and said percentage of the chromium ranges between 1.5-10.0wt% that can avoid precipitating a pearlite structure in a γ (iron, nickel) phase of the weight member and reduce manufacture cost; and the molybdenum can improve the welding property of the weight member.

Claim 2 (Original) The weight member for a golf club head as claimed in claim 1, wherein the mixture ratio of molten tungsten to molten nickel satisfies a solidus curve as follows:

$$Y = 1.26X - 38.99\%$$

Wherein Y is the percentage of tungsten by weight, and Y is not less than X.

Claim 3 (Original) The weight member for a golf club head as claimed in claim 1, further comprising silicon of less than 1.5%.

Claim 4 (Original) The weight member for a golf club head as claimed in claim 1, further comprising at least one component for improving a mechanical property of the weight member.

Claim 5 (Original) The weight member for a golf club head as claimed in claim 4, wherein said at least one component includes manganese of less than 1.0%, copper of less than 4.0%, vanadium of less than 1.0%, and niobium of less than 1.0%.

Claim 6 (Original) The weight member for a golf club head as claimed in claim 1, wherein the WFeNi alloy has a density of 9.0g/cm^3 - 10.5g/cm^3 .

Claim 7 (Original) The weight member for a golf club head as claimed in claim 1, wherein the WFeNi alloy has a melting point of 1400°C - 1500°C .

Claim 8 (Original) The weight member for a golf club head as claimed in claim 1, further including at least one trace element.

Claim 9 (Original) The weight member for a golf club head as claimed in claim 8, wherein said at least one trace element includes sulfur of less than 0.1%, phosphorus of less than 0.1 %, and carbon of less than 0.1 %.

Claim 10 (New) A weight member having a configuration for engagement with a golf club head wherein said weight member is made by casting a WFeNi alloy in a precision casting process to produce said configuration, said alloy comprising 15-40wt. % iron, 30-60 wt. % nickel, 15-30 wt.% tungsten, 1.5-10.0 wt. % chromium, and 0.5-5.0 wt. % molybdenum; with the proviso that said precision casting process takes place under conditions to prevent a pearlite structure from being precipitated in a γ (iron, nickel) phase of the WFeNi alloy.

Claim 11 (New) A golf club head which comprises a weighted member engaged therewith, said weighted member being made by casting a WFeNi alloy

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in a precision casting procedure; said alloy comprising 15-40 wt. % iron, 30-60 wt. % nickel, 15-30 wt.% tungsten, 1.5-10 wt. % chromium, and 0.5-5.0 wt % molybdenum; with the proviso that said precision casting process takes place under conditions to prevent a pearlite structure from being precipitated in a γ (iron, nickel) phase of the WFeNi alloy.